



Attorney Docket No. 07447.0044
Serial No. 09/454,526

REMARKS

The Examiner's Official Action dated June 6, 2001 has been received and its content carefully noted. Claims 1-2 were pending prior to this amendment. This amendment amends claims 1 and 2 and adds claims 3-6. Consequently, claims 1-6 are currently pending in the present application. The above amendment with the following remarks is submitted to be fully responsive to the Official Action. Reconsideration of this application in light of these remarks, and allowance of this application are respectfully requested.

In the Official Action, claims 1 and 2 are rejected under 35 U.S.C. § 102(e) as anticipated by U.S. Patent No. 6,122,403 to Rhoads (hereinafter, Rhoads).

According to the Examiner, Rhoads "teaches capturing an image of a (sic) steganographically embedded patterns, decoding that image, and displaying the extracted data." (June 7, 2001 Official Action at page 2.)

A close reading of the specification reveals that Rhoads discloses the use of a full rotationally symmetric two-dimensional object as the symbol for the embedded data. (See Figs. 18-20.) Rhoads specifically provides that:

Having discovered the ring as the only ideal symmetric pattern upon whose foundation a full rotationally robust universal coding system can be built, we must turn this basic pattern into something functional, something which can carry information, can be read by computers and other instrumentation, can survive simple transformations and corruptions, and can give rise to reasonably high levels of security (probably not unbreakable, as the section on universal codes explained) in order to keep the economics of subversion as a simple incremental cost item.

(Rhoads at col. 46, line 66 to col. 47, line 8.)

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The present invention as recited in claims 1-6 is directed to a method and apparatus for displaying registered information using embedded data. Claim 1 specifically comprises an image capture device for capturing an image of a substrate having embedded asymmetric data embodied thereon; a decoder for decoding the embedded data; and a display for displaying information registered with the substrate based on the decoded embedded data. The embedded data, as disclosed in the specification, is an elongated slash-like mark or glyph. (Applicant's Specification at page 6, line 14-15.)

Anticipation under 35 U.S.C. §102 requires that each and every claim limitation is disclosed by the applied reference. Rhoads does not teach each and every claim limitation of existing claims 1-2, or new claims 3-6, and therefore, as a matter of law, cannot anticipate these claims. That is, Rhoads does not teach the use of asymmetric embedded data. In fact, Rhoads teaches away from the use of such data when it provides that “[t]he guiding principle is that the universal coding system should easily be read no matter what rotational orientation the subject imagery is in.” (Rhoads at col. 45, lines 50-52.) Rhoads ensures readability by teaching the use of a “ring” or “knot” or “scan line”. (See e.g., Rhoads at col. 45, line 5 - col. 52, line 52.) Therefore, the rejection of claims 1 and 2 under 35 U.S.C. §102(e) as anticipated by Rhoads should be withdrawn. Accordingly, reconsideration of the rejection of claims 1 and 2 under 35 U.S.C. §102(e) is in order and respectfully requested. Newly added claims 3-6 are likewise allowable, as they depend from allowable subject matter.

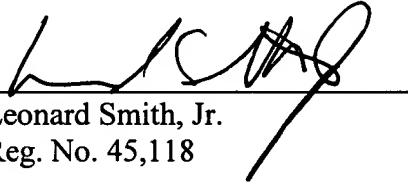
In view of the foregoing remarks, Applicants respectfully request the reconsideration and reexamination of this application and the timely allowance of the pending claims.

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Please grant any extensions of time required to enter this response and charge any additional required fees to our deposit account 06-0916.

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APPENDIX TO AMENDMENT OF SEPTEMBER 7, 2001

1. (Amended) An apparatus for displaying registered information using embedded data, comprising:

an image capture device for capturing an image of a substrate having embedded asymmetric data embodied thereon;

a decoder for decoding the embedded data; and

a display for displaying information registered with the substrate based ~~on the decoded~~ embedded data.

2. (Amended) A method for displaying registered information using embedded data, comprising:

capturing an image of a substrate having embedded asymmetric data embodied thereon;

decoding the embedded data; and

displaying information registered with the substrate based on the decoded embedded data.

-- 3. (New) The apparatus of claim 1, wherein the embedded data is a location on the substrate.

4. (New) The apparatus of claim 1, wherein the embedded data is an orientation of the substrate.

5. (New) The method of claim 2, wherein the decoding step further comprises decoding the embedded data to identify a location on the substrate.

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6. (New) The method of claim 2, wherein the decoding step further comprises decoding the embedded data to identify an orientation of the substrate. --

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